

Abstracts

Comparison of Methods for Sensitivity Determination of Point-Contact Diodes at Submillimeter Wavelength

E. Sauter and G.V. Schultz. "Comparison of Methods for Sensitivity Determination of Point-Contact Diodes at Submillimeter Wavelength." 1977 Transactions on Microwave Theory and Techniques 25.6 (Jun. 1977 [T-MTT] (Special Issue on the Proceedings of the Second International Conference on Submillimeter Waves and Their Applications)): 468-470.

Three independent methods were used: 1) mixing of two HCN lasers; 2) mixing of the sixth harmonic of a klystron with an HCN laser; and 3) the incremental-loss method. The results are given. The most sensitive configuration was obtained using a corner reflector. The influence of local-oscillator (LO) power on the conversion losses of the diodes are investigated.

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